

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A ~~computer-implemented~~ method, comprising:
  - receiving input specifying a path including a plurality of locations ordered along the path;
  - for each location in the plurality of locations, specifying a tracking zone based on the location and a previous location preceding the location along the path, the tracking zone indicating a direction of the path at the location; and
  - detecting a backward motion between a first and a second location in the path if the first location's tracking zone overlaps with the second location's tracking zone;

**wherein the receiving, the specifying and the detecting are performed by data processing apparatus.**
2. (Original) The method of claim 1, wherein the path further includes a starting location, the method further comprising:
  - specifying a tracking zone for the starting location.
3. (Original) The method of claim 1, further comprising:
  - evaluating the first location's tracking zone and the second location's tracking zone to verify whether the first tracking zone overlaps with the second tracking zone.
4. (Original) The method of claim 1, further comprising:
  - for each location in the plurality of locations, associating the location with a corresponding influence region having a predefined shape.
5. (Original) The method of claim 4, wherein the influence region represents a paintbrush.

6. (Original) The method of claim 4, wherein:
  - specifying a tracking zone for a location in the plurality of locations based on the location and a previous location in the path comprises specifying a tracking zone that is inside the influence region of the location and outside the influence region of the previous location.
7. (Original) The method of claim 1, further comprising:
  - deleting a portion of the path if a backward motion is detected between the first and second locations, the deleted portion of the path connecting the first location to the second location and including one or more locations in the plurality of locations in the path.
8. (Original) The method of claim 7, wherein receiving input specifying a path includes:
  - receiving two or more input points; and
  - specifying the plurality of locations in the path based on the two or more input points.
9. (Original) The method of claim 8, wherein:
  - specifying the plurality of locations in the path comprises interpolating between two input points.
10. (Original) The method of claim 8, wherein:
  - receiving two or more input points comprises receiving two or more input points in a two dimensional space.
11. (Original) The method of claim 8, wherein:
  - receiving two or more input points comprises receiving two or more input points in a three dimensional space.
12. (Original) The method of claim 7, further comprising:
  - presenting the path on a surface.

13. (Original) The method of claim 7, wherein:  
the plurality of locations in the path comprises contiguous raster points.
14. (Original) The method of claim 7, wherein:  
the first location precedes the second location along the path; and  
deleting a portion of the path includes deleting the first location from the path.
15. (Original) The method of claim 7, further comprising:  
defining a new portion of the path, the new portion replacing the deleted portion.
16. (Previously presented) The method of claim 15, further comprising:  
specifying a tracking zone for each of one or more new locations along the new  
portion of the path.
17. (Original) The method of claim 15, further comprising:  
specifying a new tracking zone for the second location.
18. (Original) The method of claim 1, wherein:  
receiving input includes receiving user input from a pointing device.
19. (Original) A system for processing graphical input, the system comprising:  
an interface that receives input specifying a path, the path including a plurality of  
locations; and  
a backward motion detector that specifies a tracking zone for each location in the  
path based on the location and a previous location preceding the location along the path,  
and detects a backward motion if two of the specified tracking zones overlap.
20. (Original) The system of claim 19, wherein:  
the interface comprises a pointing device to generate the input specifying the path.
21. (Original) The system of claim 19, further comprising:  
a drawing component that corrects the path if a backward motion is detected.

22. (Original) The system of claim 19, further comprising:

a non-drawing component receiving a notification from the backward motion detector if a backward motion is detected.

23. (Original) A system for processing graphical input, the system comprising:

means for receiving input specifying a path including a plurality of locations ordered along the path;

means for specifying a tracking zone for each location in the plurality of locations based on the location and a previous location preceding the location along the path, the tracking zone indicating a direction of the path at the location; and

means for detecting a backward motion between a first and a second location in the path if the first location's tracking zone overlaps with the second location's tracking zone.

24. (Original) The system of claim 23, further comprising:

means for deleting a portion of the path if a backward motion is detected between the first and second locations, the deleted portion of the path connecting the first location to the second location and including one or more locations in the plurality of locations in the path.

25. (Original) The system of claim 23, further comprising:

means for generating the input specifying the path.

26. (Previously presented) A software product tangibly embodied in a machine-readable storage device, the software product comprising instructions operable to cause one or more data processing apparatus to perform operations comprising:

receiving input specifying a path including a plurality of locations ordered along the path;

for each location in the plurality of locations, specifying a tracking zone based on the location and a previous location preceding the location along the path, the tracking

zone indicating a direction of the path at the location; and

detecting a backward motion between a first and a second location in the path if the first location's tracking zone overlaps with the second location's tracking zone.

27. (Original) The software product of claim 26, wherein the path further includes a starting location, the software product further comprising instructions operable to cause one or more data processing apparatus to perform operations comprising:

specifying a tracking zone for the starting location.

28. (Original) The software product of claim 26, further comprising instructions operable to cause one or more data processing apparatus to perform operations comprising:

evaluating the first location's tracking zone and the second location's tracking zone to verify whether the first tracking zone overlaps with the second tracking zone.

29. (Original) The software product of claim 26, further comprising instructions operable to cause one or more data processing apparatus to perform operations comprising:

for each location in the plurality of locations, associating the location with a corresponding influence region having a predefined shape.

30. (Original) The software product of claim 29, wherein the influence region represents a paintbrush.

31. (Original) The software product of claim 29, wherein:

specifying a tracking zone for a location in the plurality of locations based on the location and a previous location in the path comprises specifying a tracking zone that is inside the influence region of the location and outside the influence region of the previous location.

32. (Original) The software product of claim 26, further comprising instructions operable to cause one or more data processing apparatus to perform operations comprising:

deleting a portion of the path if a backward motion is detected between the first

and second locations, the deleted portion of the path connecting the first location to the second location and including one or more locations in the plurality of locations in the path.

33. (Original) The software product of claim 32, wherein receiving input specifying a path includes:

- receiving two or more input points; and
- specifying the plurality of locations in the path based on the two or more input points.

34. (Original) The software product of claim 33, wherein:

- specifying the plurality of locations in the path comprises interpolating between two input points.

35. (Original) The software product of claim 33, wherein:

- receiving two or more input points comprises receiving two or more input points in a two dimensional space.

36. (Original) The software product of claim 33, wherein:

- receiving two or more input points comprises receiving two or more input points in a three dimensional space.

37. (Original) The software product of claim 32, further comprising instructions operable to cause one or more data processing apparatus to perform operations comprising:

- presenting the path on a surface.

38. (Original) The software product of claim 32, wherein:

- the plurality of locations in the path comprises contiguous raster points.

39. (Original) The software product of claim 32, wherein:  
the first location precedes the second location along the path; and  
deleting a portion of the path includes deleting the first location from the path.
40. (Original) The software product of claim 32, further comprising instructions operable to  
cause one or more data processing apparatus to perform operations comprising:  
defining a new portion of the path, the new portion replacing the deleted portion.
41. (Previously presented) The software product of claim 40, further comprising instructions  
operable to cause one or more data processing apparatus to perform operations  
comprising:  
specifying a tracking zone for each of one or more new locations along the new  
portion of the path.
42. (Original) The software product of claim 40, further comprising instructions operable to  
cause one or more data processing apparatus to perform operations comprising:  
specifying a new tracking zone for the second location.
43. (Original) The software product of claim 26, wherein:  
receiving input includes receiving user input from a pointing device.
44. (Previously presented) The system of claim 19, wherein the path further includes a  
starting location, and the backward motion detector specifies a tracking zone for the  
starting location.
45. (Previously presented) The system of claim 19, wherein the backward motion detector  
evaluates the specified tracking zones to verify whether the two of the specified tracking  
zones overlap.
46. (Previously presented) The system of claim 19, wherein each location in the plurality of  
locations has a corresponding influence region having a predefined shape.

47. (Previously presented) The system of claim 46, wherein the influence region represents a paintbrush.
48. (Previously presented) The system of claim 46, wherein the backward motion detector specifies, for each location in the path, a tracking zone that is inside the influence region of the location and outside the influence region of the previous location.
49. (Previously presented) The system of claim 21, wherein the interface receives two or more input points, and the drawing component specifies the plurality of locations in the path based on the two or more input points.
50. (Previously presented) The system of claim 49, wherein the drawing component interpolates between two input points to specify the plurality of locations in the path.
51. (Previously presented) The system of claim 49, wherein the interface receives two or more input points in a two dimensional space.
52. (Previously presented) The system of claim 49, wherein the interface receives two or more input points in a three dimensional space.
53. (Previously presented) The system of claim 21, wherein the drawing component presents the path on a surface.
54. (Previously presented) The system of claim 21, wherein the plurality of locations in the path comprises contiguous raster points.
55. (Previously presented) The system of claim 21, wherein the path includes a first location and a second location corresponding to the two of the specified zones, the first location precedes the second location along the path, and the drawing component corrects the path by deleting two or more locations along the path, including the first location.



56. (Previously presented) The system of claim 21, wherein the path includes a first location and a second location corresponding to the two of the specified zones, and the drawing component corrects the path by deleting a portion of the path connecting the first location and the second location, and defining a new portion of the path that replaces the deleted portion.
57. (Previously presented) The system of claim 56, wherein the backward motion detector specifies a tracking zone for each of one or more new locations along the new portion of the path.
58. (Previously presented) The system of claim 56, wherein the backward motion detector specifies a new tracking zone for the second location.
59. (Previously presented) The system of claim 23, wherein the path further includes a starting location, the system further comprising means for specifying a tracking zone for the starting location.
60. (Previously presented) The system of claim 23, further comprising means for evaluating the first location's tracking zone and the second location's tracking zone to verify whether the first tracking zone overlaps with the second tracking zone.
61. (Previously presented) The system of claim 23, further comprising means for associating, for each location in the plurality of locations, the location with a corresponding influence region having a predefined shape.
62. (Previously presented) The system of claim 61, wherein the influence region represents a paintbrush.
63. (Previously presented) The system of claim 61, wherein the means for specifying a tracking zone comprises means for specifying a tracking zone that is inside the influence region of the location and outside the influence region of the previous location.

64. (Previously presented) The system of claim 24, further comprising:  
means for receiving two or more input points; and  
means for specifying the plurality of locations in the path based on the two or more input points.
65. (Previously presented) The system of claim 64, wherein the means for specifying the plurality of locations in the path comprises means for interpolating between two input points.
66. (Previously presented) The system of claim 64, wherein the means for receiving two or more input points comprises means for receiving two or more input points in a two dimensional space.
67. (Previously presented) The system of claim 64, wherein the means for receiving two or more input points comprises means for receiving two or more input points in a three dimensional space.
68. (Previously presented) The system of claim 24, further comprising means for presenting the path on a surface.
69. (Previously presented) The system of claim 24, wherein the plurality of locations in the path comprises contiguous raster points.
70. (Previously presented) The system of claim 24, wherein the first location precedes the second location along the path, and the means for deleting comprises means for deleting the first location from the path.
71. (Previously presented) The system of claim 24, further comprising means for defining a new portion of the path, the new portion replacing the deleted portion.
72. (Previously presented) The system of claim 71, further comprising means for specifying a tracking zone for each of one or more new locations along the new portion of the path.

Applicant : Sambit Dash  
Serial No. : 10/633,436  
Filed : July 31, 2003  
Page : 12 of 21

Attorney's Docket No.: 07844-0601001 / P554

73. (Previously presented) The system of claim 71, further comprising means for specifying a new tracking zone for the second location.